

FIG. 1
Background Art

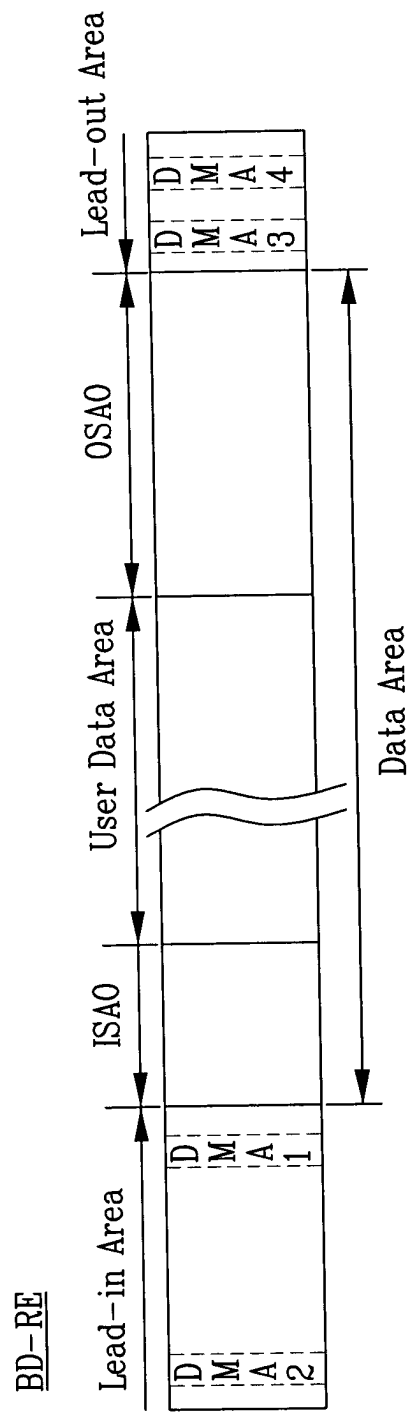


FIG. 2

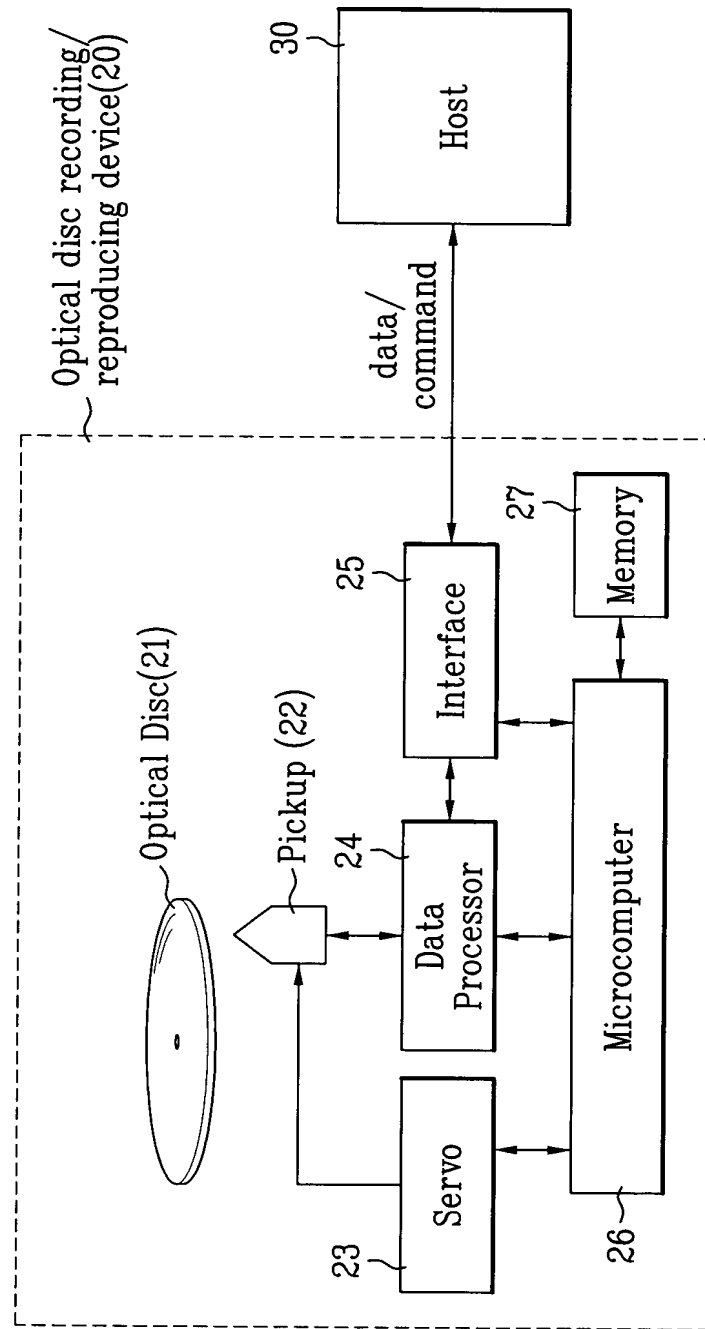


FIG. 3

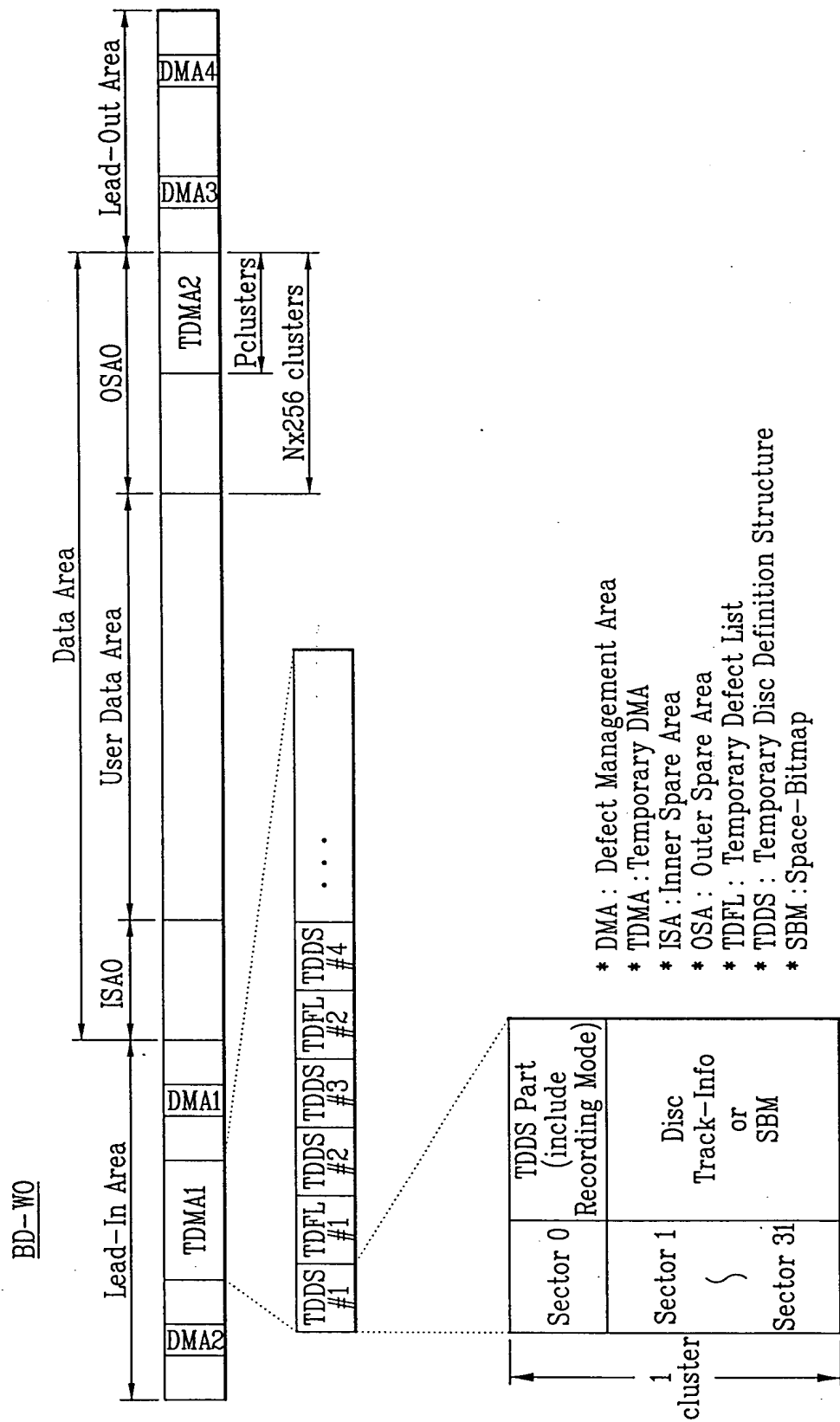
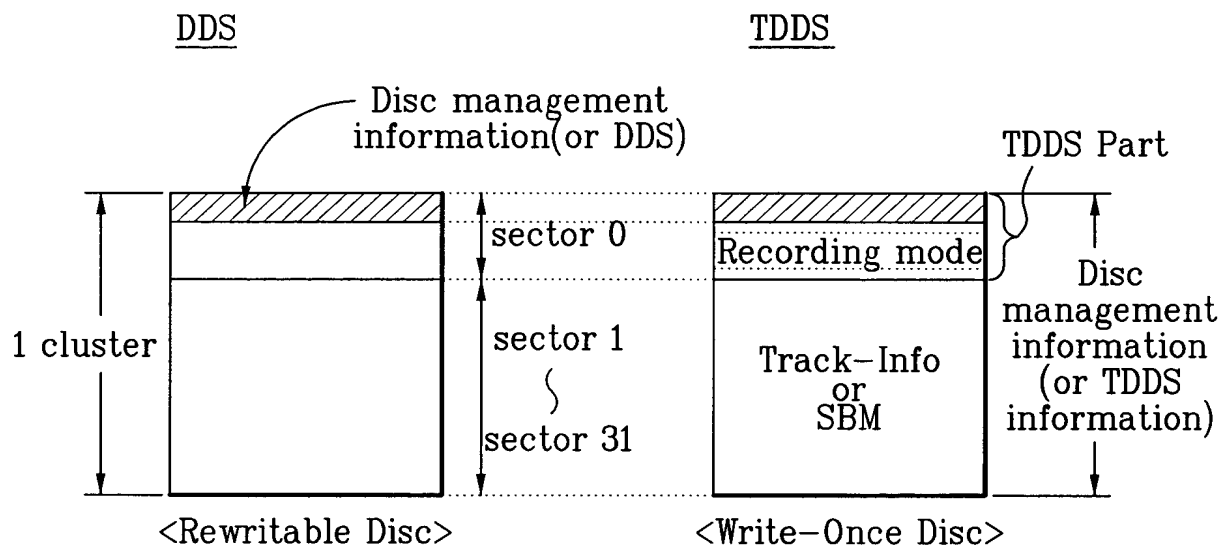


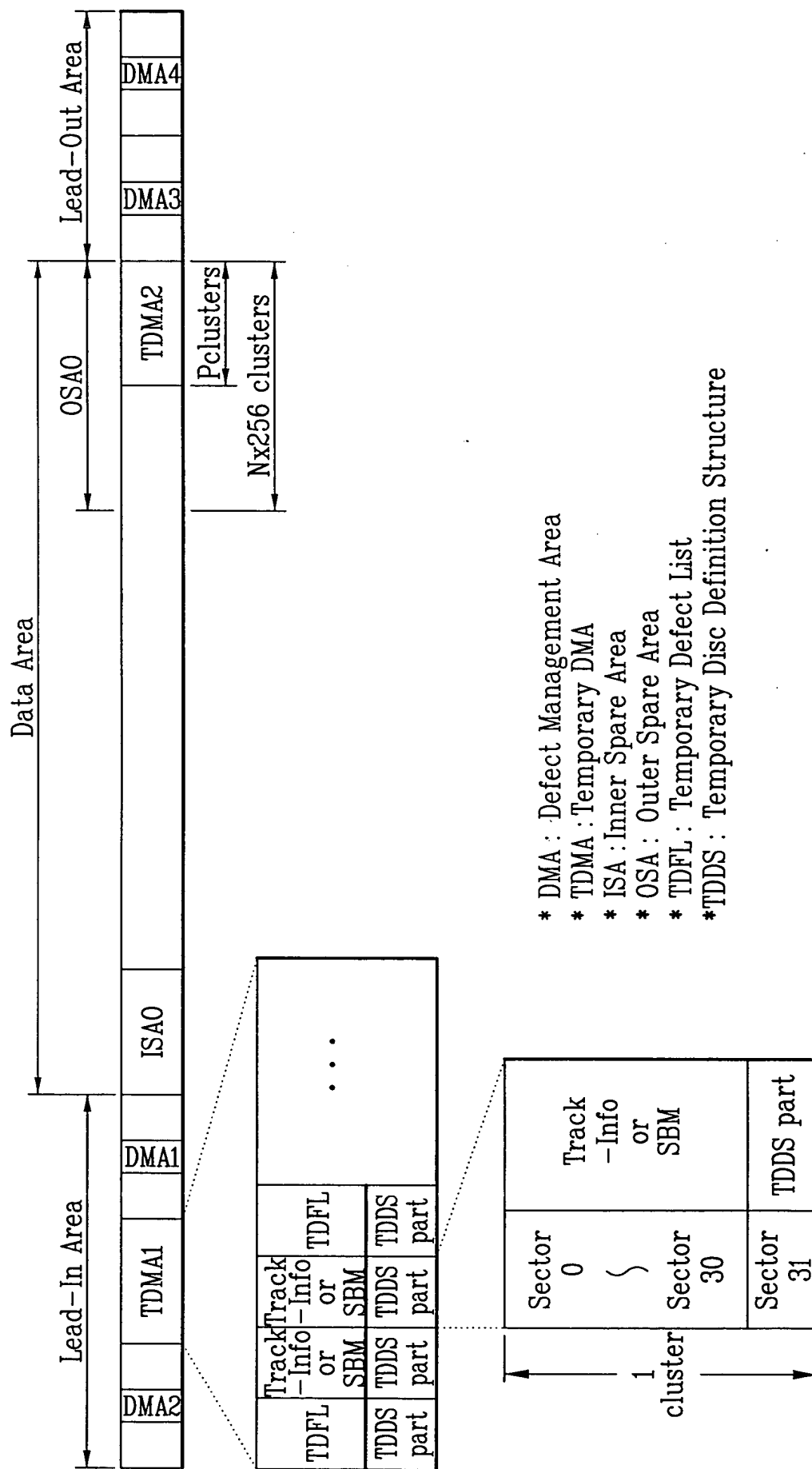
FIG. 4



* Recording mode

- 0000 0000b : Sequential Recording
- 0000 0001b : Random Recording

FIG. 5



- * DMA : Defect Management Area
- * TDMA : Temporary DMA
- * ISA : Inner Spare Area
- * OSA : Outer Spare Area
- * TDMA : Temporary Defect List
- * TDMA : Temporary Disc Definition Structure

FIG. 6A

Single Layer BD-WO

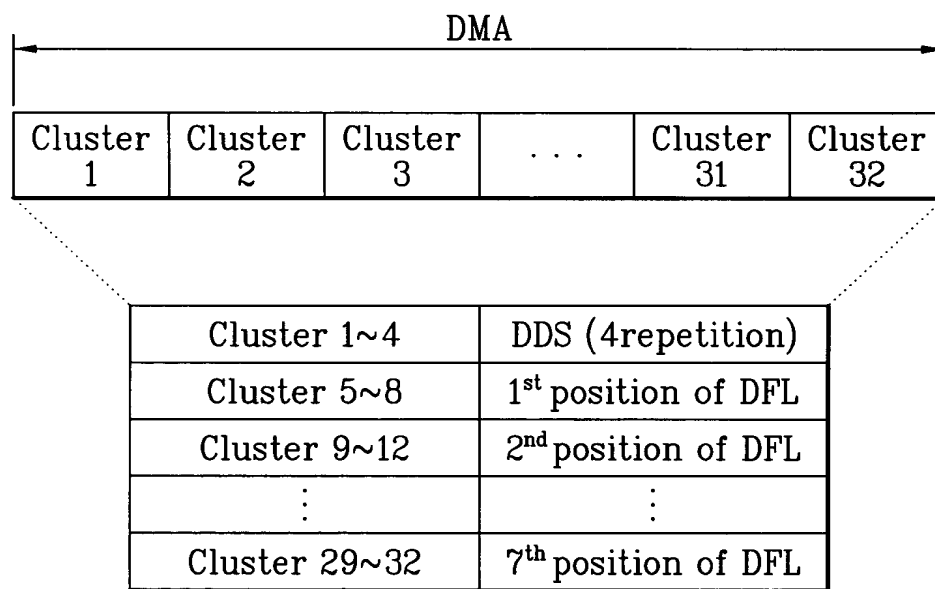
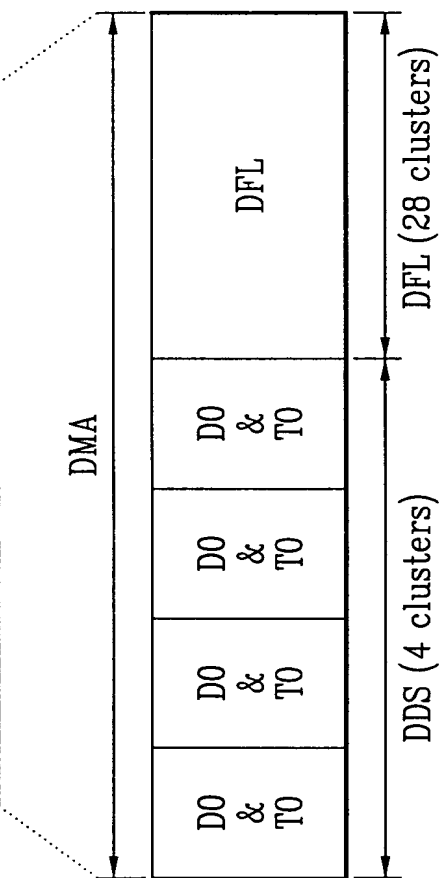


FIG. 6B

Clusters 1 ~ 4	DO & TO (4 repetitions)
Clusters 5 ~ 8	1 st position of DFL
Clusters 9 ~ 12	2 nd position of DFL
⋮	⋮
Clusters 29 ~ 32	7 th position of DFL



(Latest TDMA Information)

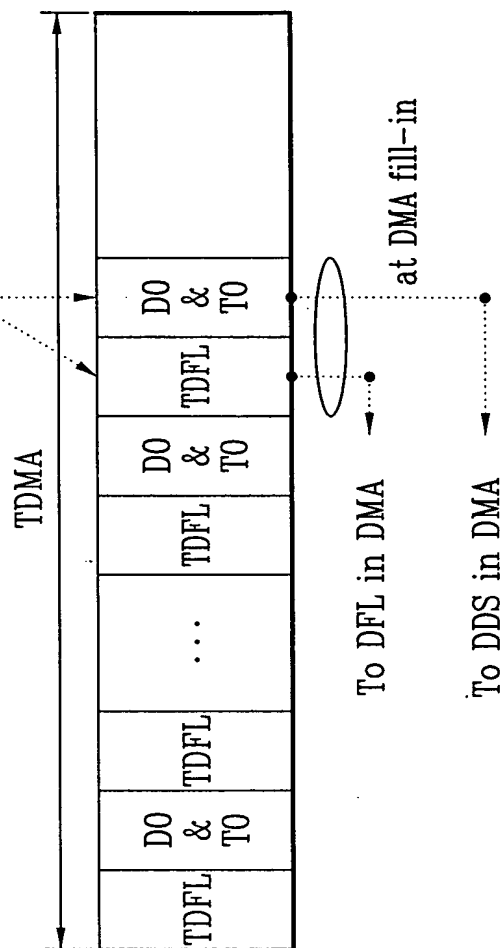


FIG. 6C

Dual Layer BD-WO

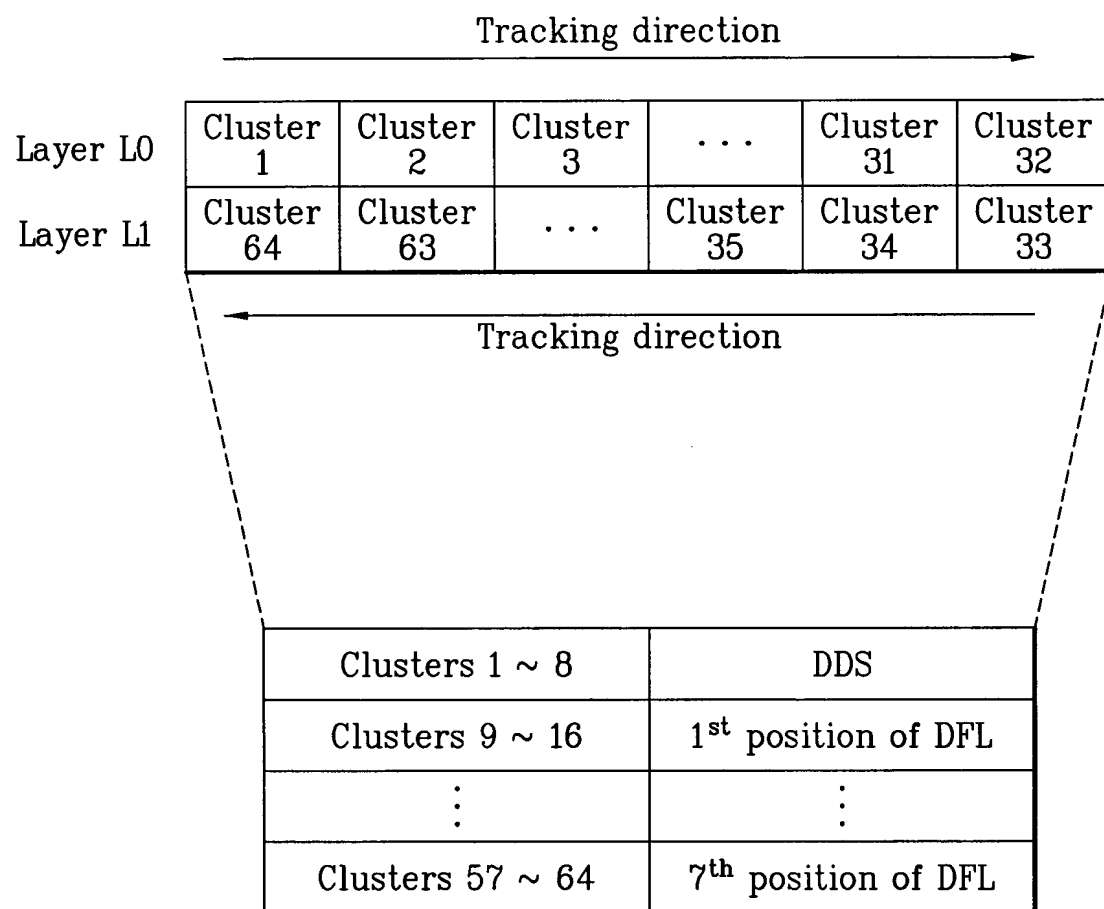


FIG. 7

	DMA fill-in timing	contents	Location in DMA
50a	No more record	Latest TDDS & TDFL	DDS & DFL
Finalization	TDMA Full	Latest TDDS & TDFL	DDS & DFL
50b			
50c	User selection	Latest TDDS & TDFL	DDS & DFL

FIG. 8

	DMA fill-in timing	contents	Location in DMA
50d	Non D.M	Predetermined Value (ex, zero padding)	DFL
50a	No more record	Latest TDDS	DDS
Finalization	TDMA Full	Latest TDDS	DDS
50b			
50c	User selection	Latest TDDS	DDS

- D.M : Defect Management
- DMA : Defect Management Area

FIG. 9A

	DMA fill-in timing	contents	Location in DMA
50e	No more record But Spare & TDMA left	Latest TDDS & TDFL	Part of DMA
50b	TDMA Full	Latest TDDS & TDFL	Remainder of DMA
50c	User selection	Latest TDDS & TDFL	Remainder of DMA

Finalization {

- D.M : Defect Management
- DMA : Defect Management Area

FIG. 9B

Clusters 1 ~ 2	DDS (before Finalization)
Clusters 3 ~ 4	DDS (at Finalization)
Clusters 5 ~ 8	DFL (before Finalization)
Clusters 9 ~ 12	1st position of DFL (at Finalization)
⋮	⋮
Clusters 29 ~ 32	6th position of DFL (at Finalization)

FIG. 10

(T)DDS status flag (1byte) in DMA/TDMA	
0000 0000	In DMA, after User select finalization
0000 1111	In DMA, after no more record
1111 0000	In DMA, after TDMA Full
1111 1111	In TDMA, before finalization